Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Per.: \_\_\_\_\_\_\_\_

**Homework 4.9: Concave versus Convex Polygons**

1. What is the difference between a concave and convex polygon? What do they have in common?

2. Is the figure below concave or convex? Find the sum of the interior and exterior angles.



1. Solve for *x* and *y*, then label each angle 4. Solve for *x*.

measurement.





One more problem on the back…

5. Create a cool problem that follows these criteria (you may see it on a quiz!):

1. involves using Algebra to find the value of a variable
2. involves knowledge of interior angles of a polygon
3. involves knowledge of exterior angles of a polygon